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- 1. A bio-stable hydrogel for use in the in the treatment and prevention of incontinence and vesicouretal reflux
- said hydrogel obtainable by combining acrylamide and methylene bis-acrylamide in amounts so as to give about 0.5 to 25% by weight polyacrylamide, based on the total weight of the hydrogel; radical initiation; and washing with pyrogen-free water or saline solution.
- 10 2. The hydrogel according to claim 1, wherein said combining acrylamide and methylene bis-acrylamide is in a molar ratio of 150:1 to 1000:1.
 - 3. The hydrogel according to claim 1, comprising less than 15% by weight polyacrylamide, based on the total weight of the hydrogel, preferably less 10%, more preferably less than
- 15 7.5%, even more preferably less than 5%, most preferably less than 3.5% % by weight polyacrylamide, based on the total weight of the hydrogel.
- 4. The hydrogel according to claim 3 comprising at least 1% by weight polyacrylamide, based on the total weight of the hydrogel, preferably at least 1.5%, such as 1.6% % by20 weight polyacrylamide, based on the total weight of the hydrogel.
 - 5. The hydrogel according to claim 1 having a complex viscosity of about 2 to 50 Pas, such as about 2 to 40 Pa s, preferably about 2 to 30 Pa s, more preferably about 2 to 20 Pa s.

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- 6. The hydrogel according to claim 1 for use in the in the treatment and prevention of incontinence.
- 7. The hydrogel according to claim 1 further comprising at least 75% by weight pyrogen-30 free water or saline solution, preferably pyrogen-free water.
 - 8. The hydrogel according to claim 7 comprising at least 80% by weight pyrogen-free water or saline solution, preferably at least 85 %, more preferably at least 90%, even more preferably at least 95% by weight pyrogen-free water or saline solution.

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- 9. A method of treating or preventing incontinence or vesicouretal reflux comprising administering a hydrogel to a mammal/said hydrogel comprising 0.5 to 25% by weight polyacrylamide, based on the total weight of the hydrogel.
- 10. The method according to claim 9, wherein the hydrogel is obtainable by combining acrylamide and methylene bis-acrylamide in a molar ratio of 150:1 to 1000:1.
- 11. The method according to claim 9, wherein the hydrogel comprises less than 15% by 10 weight polyacrylamide, based on the total weight of the hydrogel, preferably less 10%, more preferably less than 7.5%, even more preferably less than 5%, most preferably less than 3.5% % by weight polyacrylamide, based on the total weight of the hydrogel.
- 12. The method according to claim 11, wherein the hydrogel comprises at least 1% by 15 weight polyacrylamide, based on the total weight of the hydrogel, preferably at least 1.5%, such as 1.6% % by weight polyacrylan/ide, based on the total weight of the hydrogel.
- 13. The method according to claim 9, wherein the hydrogel has a complex viscosity of about 2 to 50 Pas, such as about 2 to 40 Pas, such as about 2 to 30 Pas, preferably about 20 2 to 20 Pas.
- 14. The method according to claim 9, wherein the hydrogel comprises at least 80% by weight pyrogen-free water of saline solution, preferably at least 85 %, more preferably at least 90%, even more preferably at least 95% by weight pyrogen-free water or saline 25 solution
 - 15. The method according to claim 9, wherein the administering comprises injecting the hydrogel.
- 30 16. The method according to claim 15, wherein the injecting of the hydrogel comprises injections selected from the group consisting of injections at positions 10, 2, and 6 o'clock of the cross-sectional axis of the urethra for the treatment of urinary incontinence; injections at positions 10, 2, and 6 \(\delta \) clock of the cross-sectional axis of the colon or 35 rectum for the treatment of anal incontinence; and

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injections at positions 10, 2, and 6 o'clock of the cross-sectional axis of the ureter for the treatment of vesicouretal reflux.

- 17. The method according to any one of claims 9 further comprising the use cells, such as stem cells for cellular engraftment to the surrounding tissue in the ureter, urethra or analis canalis.
- 18. A prosthetic device for increasing the resistance of conduits selected from the group consisting of the urethra; the rectum of colon; and the ureter for the treatment of urinary
 10 incontinence, anal incontinence, and vesicouretal reflux, respectively; wherein said device is injectable and comprising a hydrogel as defined in any of claims 1 to 8.
- 19. The device according to claim 18, further comprising cells, such as stem cells for cellular engraftment to the surrounding tissue in the ureter, urethra or *analis canalis*.